

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F25J3/04 F25J3/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F25J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 291 737 A (GIRAULT JEAN-LOUIS ET AL) 8 March 1994 (1994-03-08) cited in the application figures 2,3	1-10
A	SPRINGMANN H.: "Zur Planung grosser Sauerstoffanlagen in Stahlwerken" LINDE BERICHT AUS TECHNIK UND WISSENSCHAFT, no. 40, 1976, pages 24-29, XP001181984 cited in the application the whole document	1-10
A	US 6 550 234 B2 (GUILLARD ALAIN) 22 April 2003 (2003-04-22) column 4, line 57 - column 5, line 10 column 6, line 6 - line 12; claims 7,8; figures	1-10
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

5 April 2005

Date of mailing of the international search report

15/04/2005

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR2004/050582

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 582 036 A (LAFORCE CRAIG S ET AL) 10 December 1996 (1996-12-10) figure 3	1-10
A	US 5 538 534 A (BUFFENOIR MARC ET AL) 23 July 1996 (1996-07-23) figure 1	1-10

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5291737	A	08-03-1994	FR 2680114 A1 12-02-1993
			AU 655485 B2 22-12-1994
			AU 2079892 A 11-02-1993
			BR 9203049 A 04-05-1993
			CA 2075420 A1 08-02-1993
			CN 1071000 A ,C 14-04-1993
			DE 69208412 D1 28-03-1996
			DE 69208412 T2 04-07-1996
			EP 0531182 A1 10-03-1993
			ES 2083709 T3 16-04-1996
US 6550234	B2	18-07-2002	FR 2819584 A1 19-07-2002
			EP 1223395 A1 17-07-2002
			EP 1406052 A2 07-04-2004
			JP 2002243361 A 28-08-2002
			US 2002092306 A1 18-07-2002
US 5582036	A	10-12-1996	BR 9603588 A 19-05-1998
			DE 69616461 D1 06-12-2001
			DE 69616461 T2 23-05-2002
			EP 0762065 A2 12-03-1997
			ES 2161951 T3 16-12-2001
US 5538534	A	23-07-1996	FR 2712383 A1 19-05-1995
			AU 685164 B2 15-01-1998
			AU 7770894 A 18-05-1995
			CA 2135568 A1 13-05-1995
			CN 1105752 A ,C 26-07-1995
			DE 69406895 D1 02-01-1998
			DE 69406895 T2 30-04-1998
			EP 0653599 A1 17-05-1995
			ES 2109639 T3 16-01-1998
			JP 7239193 A 12-09-1995
			US RE37014 E1 16-01-2001
			ZA 9408834 A 13-07-1995